CamOne
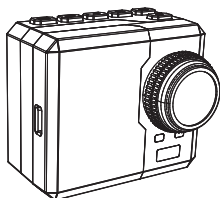
Manual

(Download – CamOneTec.com)

CamOneTec
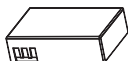turn on video & images

Content of the Box

Please check the completeness before using the product.

CamOne infinity

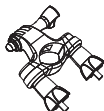DiveBox

Battery

Manual

Pouch
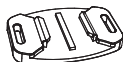
Ten-2-Ten Adaptor

USB-Cable

USB-AV-Cable

M-Mount

Handlebar Mount

Extension long

Extension short

Helmet Mount with belt

Flat Mount

Curved Mount

Adhesive pad big & small

Index

Preparation

Compensation for recorded content

CamOne Tec will not be responsible in any case for any consequential or direct problems that will lead to a loss of recorded or edited data. Furthermore, CamOne Tec will not guarantee the content in case the recording or saving is not working properly. The above limitations are also valid in case the unit has been repaired. Do not remove the micro SD Card while recording or saving. Do not switch off or take out the battery before the recording has been finished or as long as there is access to the memory, indicated by a rotating circle. Protect the unit from extreme temperatures. Do not record at temperatures lower than minus 10°C or higher than 50°C. Remove the camera from the windshield/sucking pad in case extreme temperatures can be expected!

It is known that forged accumulators which remarkably look like the original product are offered for sale repeatedly. Some of these accumulators are not equipped with a proper protection circuit which would satisfy the regulations of the prevailing safety regulations. These accumulators might lead to fires or explosions. We take no liability for accidents, damages or failures which result from the use of a forged accumulator.

Insert/replace Battery
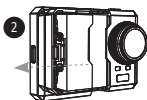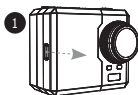
1. Push the locker to the front (lens direction)
2. Pull out the battery cover.
3. Remove the cover, below you will find the battery case.
4. Align the battery's contacts with the golden contacts inside the cam and insert battery.

! Only use the original battery (Art-No.: COIN08). Batteries of other suppliers may have different polarities and cause damages!

Charging the Battery

The enclosed battery is not fully charged when being purchased. Please charge the battery before using the CamOne infinity for the first time!

Connect the camera with your computer using the included USB-cable. The charging process is indicated by the red LED light which switches to green as soon as charging is finished.

Charging takes about 3 hours. You can alternatively use the 5V USB-Power adaptor (Art. No.: FCHD43).

Functional Diagram

The USB comport has the following setup:

» AV-Out

» 5V IN

» Data input

» Signal IN

Key Panel

Battery cover

Lens

HDMI

Port Cover

Microphone

Status LEDs

USB

Front LED

Screen

OCB-Contacts
Wifi/2,4 GHz Module

Tripod thread
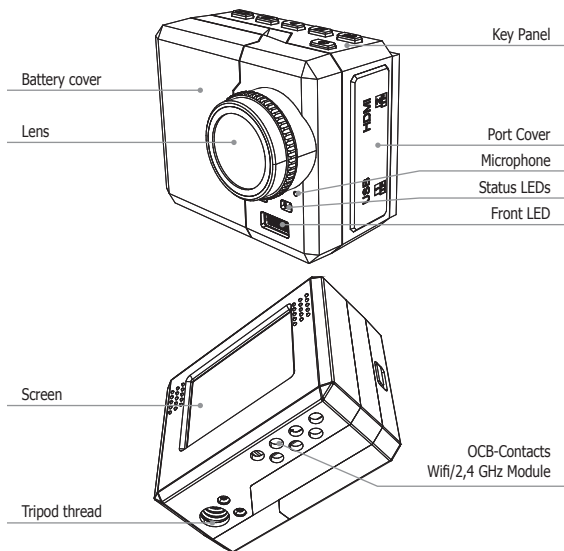
Due to limitations in the technology of the display production, single or few dark or light dots might appear. This is not a defect and will not have any impact on the recorded video or photo!

Main Functions

! **The buttons of the CamOne infinity are multifunctional**

On/Off

Light button

Menu button
Switching through
3 submenus
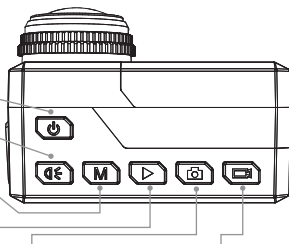
Play button	**Photo button**	**Video button**
Replay	Photo function	Video function
Switching through submenus	Switching through submenus	Switching through submenus
Confirming chosen options	Zoom In	Zoom Out
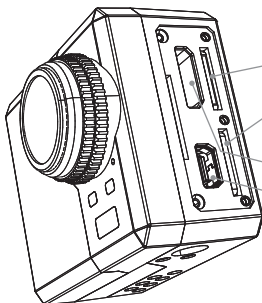
Micro SD Card slot 2
Micro SD Card slot 1

HDMI Port
10-Pin Port Mini USB 2.0

Compatible Memory Cards

Only use Micro-SDHC-Cards ranked "Class4" or higher. The camera can be used with cards up to 32 GB. The recommended cards are "FCO Rapid Rush" cards at a minimum size of 8 GB.

Using a 32 GB card allows a recording time of 4,5 hours at highest resolution.

Capacity	Art. Nr.
8 GB	FC3008
16 GB	FCHD16
32 GB	FCHD32

Inserting/Removing the micro SD Card

» Remove the comport cover protecting the sockets and the card slot.

» Slide in the card **upside down** – printed side to the bottom – until it clicks in.

» Use Slot 1 first. If you are using 2 cards, the cam automatically switches to the second card as soon as the memory is full. To remove press the visible edge of the card, which will initiate the spring mechanism.

! Firmware Updates are only possible using Slot 1.

Micro SD Card slot 1   Micro SD Card slot 2

Switching on the Camera

On/Off   On/Off
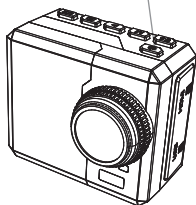
Press the power button on the top until the cam is activated.

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Icons (Camera Status)

According to the configurations, different icons will appear on the display:

Video/Photo recording   Duration   Timestamp Photo/Video   Battery status

System time   Memory cards   Remaining capacity   Resolution   Quality

The Timestamp is available in Photo and Video mode.

The card slot in use is indicated by a blinking icon.

An empty slot is indicated by the symbol of a crossed out card.

Setup Menu

Please press the M-Button for 3 seconds to enter the setup. The menu is divided into 3 categories that can be selected by the different tabs (Photo, Video and System settings). By pressing the M-Button you will enter the next tab. To exit the menu, press the M-Button for several seconds.

Photo-Menu

Here you can select all necessary settings for photo recordings.

Picture quality:	3, 5 or 8 MPix
Photo Intervals:	Off; quick recording of 3 or 5 pictures directly after one another
Serial Picture:	Off; shoot pictures every 3, 5, 10, 30 or 60 Sec.
Time stamp:	On or Off (Date & Time are embedded in the picture)

Video-Menu

Here you can select all necessary settings for video recordings.

Video Format:

Video Format	Resolution (Pixel)	Standard (in FPS)	
		NTSC	PAL
480pH	720 x 480	60	50
720p	1280 x 720	30	25
720pH	1280 x 720	60	50
1080pS	1440 x 1080	30	25
1080p	1920 x 1080	30	25

Quality:	Low, Medium or High (Data rate)
Recording:	5, 10, 15, 20 or 30 Min.
	Due to the data volumes a longer recording is not possible and the camera automatically starts a new video.
Timestamp:	ON or OFF (embedded in the video)
Timelapse:	OFF; 1 frame per second (FPS); 1, 2 or 6 frames per minute (FPM)
Loop:	Overwriting older recordings on or off (when storage space maximum is reached)
Videoformat:	MPEG4 or MOV
Microphone:	AN or AUS

System Settings

Here you can perform the main settings.

Languages:	Choose between German, English, French, Spanish, Italian, Dutch, Norwegian or Russian
Date:	Year-Month-Day. Switch through menu using the M-Button
Time:	Hour:Minute. Switch through menu using the M-Button
Auto Screen Off:	Screen will be switched off to save battery: Off, 30, 60 or 120 Sec.
Auto Power Off:	Select the Auto off function: Off, 60 Sec., 120 Sec. or 300 Sec.
Motion detection:	Off, low, medium or high
Flip picture:	Off or flipped by 180°
Image mirroring:	Off or mirrored
Light Frequency:	Before you start recording indoors, make sure to set the correct Hz-frequency of your electricity grid:

Europe, Asia and Australia	– 50 Hz
America	– 60 Hz
Japan	– 50 or 60 Hz (depending on the area)

Video System:	NTSC or PAL
OSD:	Display icons ON or OFF
Status LED:	Switch front LEDs On or Off
Card formatting:	Slot 1 or Slot 2 (All recorded data will be deleted!)
Factory setting:	Resets the camera
Firmware:	Information about current firmware and update

! Please note that some functions are only available after a firmware/software update.

Using the DiveBox and different Mounts

Put the camera into the front side of the DiveBox at first and lock it. Please make sure that the fastener of the box is properly locked. The cam can still be operated though the buttons. The rubber seal has to be clean and undamaged. Please also make sure that the camera lens and the interior of the DiveBox are clean as well. A high air moisture can condense on the interior side of the lens. Use anti-mist pads to reduce or avoid that.

! When using the bike or helmet mount, please make sure that the adjusting screws are fixed tightly. Mounts that use the adhesive pads must have a clean and non-lipid surface.
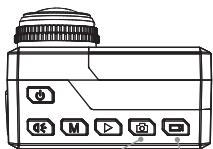
Photo / Video Recording

Right after switching on the Cam it is possible to take pictures or videos by pressing the "record" button. Press the button again to stop the recording.

! **Never remove the SD-card or the battery whilst the cam is saving data. (indicated by a rotating circle on the display).**

Photo Recording   Video Recording

Underwater Recordings
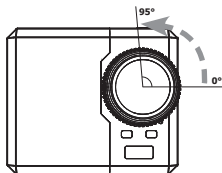
For optimal recordings underwater turn the lens counterclockwise by 95° (see picture)

By turning the lens the CamOne infinity is adjusted to the refraction of the water. This makes the recordings brighter and more brilliant.

95°

0°

Video Timelapse

» Press the "M-Button" to enter the setup menu.

» Choose the video menu and then "Time lapse". You can choose between: Off, 1 FPS, 1 FPM, 2 FPM or 6 FPM.

» Confirm the requested function.

» Leave the menu.

By pressing the record button you can start the video. By pressing this button again the recording is stopped and will be saved to the memory card. If you are planning to record for a longer time, we recommend to turn off the screen to save battery (Menu: "Auto Screen Off").

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Photo Interval

» Press the "M-Button" to enter the Setup Menu

» Choose the photo menu and then "Photo Interval". You can choose between: Off, 3 or 5 photos.

» Confirm the requested function

» Leave the menu.

By pressing the record button the camera will release the intervals. The photos will be saved on the card in JPEG.

Photo Serial Recording

» Press the "M-Button" to enter the Setup Menu.

» Choose the photo menu and then "Serial Picture". You can choose between: Off, every 3, 5, 10, 30 or 60 Sec.

» Confirm the requested function

» Leave the menu.

By pressing the record button photos will be shot. Pressing the button again stops shooting, the photos will be saved as JPEG on the memory card.

Zoom

During the recording (Video) in mode 480pH and 720p you can Zoom In and Out. The zoom will be shown by a status bar on the display. Zooming in 1080p and PAL mode is not possible. By pressing the Video or Photo button you can choose the zoom factor.
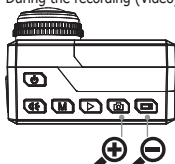
Playback of Videos and Photos

To watch your recorded data, press the "Play" button. You have the choice between photos and videos. Choose by using either the Photo or Video button. Confirm your choice by pressing the Play button.

To playback the recordings, press "Play". The display shows the name of the files.

To go back, press the M-Button for a longer time.

Playback on TV

Connect the camera to your TV by using an HDMI Cable or the supplied USB-AV Cable and switch to the corresponding channel. Enter the Playback Mode on the camera to watch your videos. The icons (camera status) can be switched off by entering the OSD- option in the menu.

Copy/Transfer Video Files (MS Windows)

The videos can be watched easily on your PC. We recommend the free VLC- Player. It can be downloaded on vlc-player.org

Copying files from the CamOne infinity to your computer:
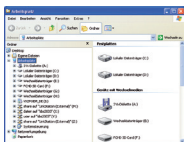
» Connect the camera with the USB-Cable.

» Connect the USB-Cable with your PC.

» Switch on the camera.

» Choose the connection using the "Photo" and the "Video" buttons.

» Confirm with "Play" button.

» The camera will be recognized as a hard drive.

» The camera display will show "Connect to PC".

Firmware Update

To get the most out of your camera, install the latest software (Firmware) from camonetec.com.

The firmware version of your camera is shown in the system settings.

» First, download the ZIP file from our homepage.

» Unzip the downloaded folder

» Copy the contained BIN file into the main root of the memory card (e. g. F:/).

» Enter the system settings of the camera and choose Firmware Update

» Choose "Yes" and confirm with the "Play" button. The process takes about 1 minute. The display shows the procedure.

» Do not turn off the cam whilst updating!

» Afterwards, restore the default settings.

! Make sure the battery is fully charged.

Using external Modules

With the supplied Ten2Ten Adaptor you can easily connect the camera with many accessories of the FlyCamOne HD family. Make sure to **always** Plug in the adaptor to the USB plug of the cam and connect the accessories.

Following accessories are compatible with the CamOne infinity:

| Picture	Functions	Art. No.
GPS Module		
	Indication of several GPS- data and G- forces.	FCHD15
2,5" (63,5 mm) external Screen		
	Cable-connected video picture on separate screen e.g. on your wrist, the handlebar or with 5,8 GHz Video Transmission Set.	FCHD02
5.8 GHz Video Transmission		
	Transmission of the video on 5,8 GHz for up to 300 m to an external screen or the V-Eyes video goggles.	FCHD03
V-Eyes Video goggles		
	Showing the video on 2 video cubes in 3x 640x480 Pixel. The goggles work with a 2-axis head tracker movement. Easy connection of other video sources (3,5 mm jack input). In-Ear-Stereo headphones included.	FCHD08

LinX Digital Video-System 2,4 GHz

In connection with the LinX Digital Video System you are able to control the camera and watch the picture in a distance of up to 300 m.

COIN10

Wifi-Module
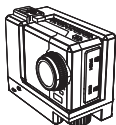
The Wifi-Module enables you to control the CamOne infinity completely with a smartphone. The live picture is showing on the phone display. By using your own access point the module is working in the nature as well.

COIN27

Exchanging the Lens (optional)

To exchange the lens, twist off the adjusting ring from the lens. **Please pay attention that no dust or dirt gets into the cam.** Screw in the replacement lens. Check the sharpness with a TV. Fix the cam with the two screws.

! Please note! Inappropriate opening may damage the camera head and ports. Perform this work very carefully and take your time!

Liability

The manufacturer is not liable for the loss of recordings due to malfunction or defects of the device, the storage device or accessories.

! The privacy of others is protected by law and should be taboo. The recording of a third party can be an illegal act. You are responsible for your actions.

Maintenance

Observe the following instructions to avoid damage to the product:

» Use only recommended accessories.

» Do not disassemble the device. Inside, there are no parts that can be serviced by the user.

» Maintenance work needs to be carried out by skilled customer service employees

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Technical Data

Operating Voltage:	5 V (USB) / 3,7 V (LiPo-Battery, 800 mAh)
Consumption:	250 – 450 mAh (depending on camera settings)
Size:	49 x 42 x 34 mm
Weight:	77 g, incl. battery
Battery:	3,7 V 800 mAh LiPo
Format:	MPEG4 or MOV
Sensor:	CMOS, 5 MPix
Lens (exchangeable):	170° > 720p
	127° > 1080p
Zoom:	Digital 4times (only NTSC)
Screen:	1,5" (38 mm) TFT
Microphone:	Mono, 48 kHz (built-in)
Ports:	10 Pin Mini USB 2.0
	HDMI
	Open Connector Board (OCB, bottom of the cam)
Remote (optional):	LinX- Digital Video System 2,4 GHz / Wifi
Operating-/Storagetemp.:	10° C till 50° C
Memory:	2x Micro SD/SDHC ≤ 32 GB (Class 4 or higher)
White balance:	Automatically

FAQ

Error	Reason	Solution
The camera switches itself off after start.	The battery is not charged.	Charge the camera with USB for at least 3 hours.
Unable to switch ON the camera.	The battery is not inserted correctly.	Check the contacts.
	The battery is defective.	Replace the battery.
The video is flipped by 180°.	Wrong menu setting.	Change menu setting.
Date and Time are not displayed correctly.	Wrong menu setting.	Change date and time in the setup.
Display shows "SD Error"	Faulty memory card.	Format or replace the memory card.
The video jerks when playing on PC.	The USB connection is too slow.	Save the file on the PC first and play then.
	The memory card is not writing fast enough.	Use one of the recommended cards.
	The computer is too slow.	Plug the camera to a TV.
	The data rate is too high for the computer.	Reduce the data rate to „Standard".
The camera does not react while working.	The software has crashed.	Remove the battery for about 10 seconds.

Accessories

Art.-Nr.:	EAN	Article
COIN08	4260033041975	CamOne infinity Battery LiPo 3,7 V 800mAh
COIN10	4260033041968	CamOne infinity LinX Digital Video-System 2,4 GHz
COIN11	4260033041975	CamOne infinity DiveBox
COIN12	4260033041982	CamOne infinity Handlebar Mount
COIN13	4260033041999	CamOne infinity Ten-2-Ten Adaptor
COIN14	4260033042545	CamOne infinity Connector 1x long / 1x short
COIN16	4260033042569	CamOne infinity M-Mount
COIN17	4260033042576	CamOne infinity Helmet Mount
COIN18	4260033042583	CamOne infinity Flat Mount
COIN09	4 260033 041951	CamOne infinity Curved Mount
COIN19	4260033042590	CamOne infinity Adhesive Pad small 5x
COIN20	4260033042606	CamOne infinity Adhesive Pad big 5x
COIN21	4260033042613	CamOne infinity USB-AV Cable
COIN32	4 260033 042828	CamOne infinity Lens 96°
COIN31	4 260033 042811	CamOne infinity Lens 142°
COIN22	4260033042620	CamOne infinity Lens 170°
COIN23	4260033042637	CamOne infinity Lens cap
COIN25	4260033042750	CamOne infinity Mono pod
COIN26	4260033042767	CamOne infinity Surfmount 360°
COIN28	4 260033 042781	CamOne infinity Chest Mount
COIN27	4260033042774	CamOne infinity Wifi Module
COIN29	4260033042798	CamOne infinity Release Button
COIN30	4260033042804	CamOne infinity Bullet Time Cable
FCHD02	4260033049520	FlyCamOne HD externeral screen 2,5" (63,5 mm)
FCHD03	4260033049537	FlyCamOne HD 5.8 GHz Video Transmission Set
FCHD15	4260033049650	FlyCamOne HD GPS-Module with X-Cable
FCHD16	4260033049667	FCHD Rapid Rush 16 GB Micro SD-Memory card
FCHD32	4260033049827	FCHD Rapid Rush 32 GB Micro SD-Memory card
FCHD43	4260033048578	USB Power adaptor 110-220 V (Charging with socket)

Safety Advice

Before you start using the camera please read the manual and safety advices carefully.

WARNING Li-Po BATTERY

! Mishandling the battery may cause an explosion, fire and smoke including damage of health or goods. It will also reduce battery performance. Never charge a damaged Li-Po battery pack. Stop charging if the Li-Po battery pack is deformed (blown up). Charge and store the battery pack at a temperature between 0° C and 40° C – avoid a temperature higher than 60° C when discharging. Do not shortcut – Risk of explosion and fire!

LiPo-Battery < 50° C

This product uses Li-Po batteries. Li-Po batteries are recyclable, and a valuable resource. To dispose of the battery, remove it and take it to a resource recovery facility.

$C \in$ Herewith we declare that this item is in accordance with the essential requirements and other relevant regulations of the directive 2004/108/EC. A copy of the original declaration of conformity can be obtained at the address below.

Information for disposal of crossed Bin marked products

DE6989527 This symbol is marked on a product or packaging, it means that the product including the batteries must not be disposed of with your general household waste. Only discard electrical/electronic items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

Service & Support

from October 2012

CamOneTec by ACME

Industriestr. 10a

33397 Rietberg

Germany

CamOneTec by ACME

Boikweg 24

33129 Delbrück

Germany

Phone: +49 5244 7000 70 (until October 2012)

E-Mail: service@camonetec.com

camonetec.com

A list of worldwide service stations is available at **camonetec.com/service**

CamOne

CamOneTec.com